

## ABSTRACT OF THE DISCLOSURE

A highly acidic metalated mixture of inorganic acids ("HAMMIA"). The acidic mixture or composition can be isolated from a mixture prepared by mixing a salt of phosphoric acid, and a preformed, or in-situ generated, solution or suspension of an acidic sparingly-soluble Group IIA complex ("AGIIS"), wherein the solution or suspension of AGIIS is in an amount sufficient to render the acidic pH of the composition to be less than about 2. An adduct which contains the acidic composition discussed above and an additive. Also a method to reduce biological contaminants in a nutrient material using the acidic composition or the adduct.